THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OF PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

- 1. An isolated nucleic acid comprising a nucleotide sequence selected from the group consisting of the nucleotide sequence defined by SEQ ID NO:5, or a fragment, derivative or analog thereof, SEQ ID NO:6, or a fragment, derivative or analog thereof, SEQ ID NO:7, or a fragment, derivative or analog thereof, SEQ ID NO:8 or a fragment, derivative or analog thereof, SEQ ID NO:9, or a fragment, derivative or analog thereof, SEQ ID NO:23, or a fragment, derivative or analog thereof, SEQ ID NO:23, or a fragment, derivative or analog thereof, SEQ ID NO:24, or a fragment, derivative or analog thereof, and a combination thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 2. The isolated nucleic acid of claim 1 comprising the nucleotide sequence defined by SEO ID NO:6, or a fragment, derivative or analog thereof.
- 3. The isolated nucleic acid of claim 1 comprising the nucleotide sequence defined by SEQ ID NO:7, or a fragment, derivative or analog thereof.
- An isolated nucleic acid, wherein said isolated nucleic acid exhibits translational regulatory activity and hybridizes to a nucleotide sequence selected from the group consisting of the nucleotide sequence defined by SEQ ID NO:5, or a fragment, derivative or analog thereof, SEQ ID NO:6, or a fragment, derivative or analog thereof, SEQ ID NO:7, or a fragment, derivative or analog thereof, SEQ ID NO:8 or a fragment, derivative or analog thereof, SEQ ID NO:9, or a fragment, derivative or analog thereof, SEQ ID NO:23, or a fragment, derivative or analog thereof, SEQ ID NO:24, or a fragment, derivative or analog thereof, SEQ ID NO:26, or a fragment, derivative or analog thereof, and a combination thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity, said hybridization conditions selected from the group consisting of:
 - i) 1M Na+, at about 5°C below Tm, followed by washing at the same temperature as that of hybridization in 6 X SSC; and

ii) 5 X SSPE, 0.1% SDS at about 5°C below Tm, followed by washing at the same temperature as that of hybridization in 6 X SSC;

wherein, said Tm is defined as: Tm=81.5-16.6(log[Na+])+0.41(%G+C)-(600/N); and, N is the length of said nucleotide sequence.

- 5. The isolated nucleic acid of claim 1 comprising nucleotides 1-16 of SEQ ID NO:6, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 6. The isolated nucleic acid of claim 1 comprising nucleotides 10-24 of SEQ ID NO:6, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 7. The isolated nucleic acid of claim 1, comprises the nucleotide sequence of SEQ ID NO:15, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 8. The isolated nucleic acid of claim 1, comprises the nucleotide sequence of SEQ ID NO:16, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 9. The isolated nucleic acid of claim 1, comprises the nucleotide sequence of SEQ ID NO:18, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 10. The isolated nucleic acid of claim 1, comprises the nucleotide sequence of SEQ ID NO:19, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 11. The isolated nucleic acid of claim 1, comprises the nucleotide sequence of SEQ ID NO:20, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.

- 12. The isolated nucleic acid of claim 1, comprises the nucleotide sequence of SEQ ID NO:22, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 13. The isolated nucleic acid of claim 1, comprises the nucleotide sequence of SEQ ID NO:23, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 14. The isolated nucleic acid of claim 1, comprises the nucleotide sequence of SEQ ID NO:24, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 15. The isolated nucleic acid of claim 1, comprising the nucleotide sequence of SEQ ID NO:6.
- 16. The isolated nucleic acid of claim 1, comprising nucleotides 1-16 of the nucleotide sequence of SEQ ID NO:6.
- 17. The isolated nucleic acid of claim 1, comprising nucleotides 10-24 of the nucleotide sequence of SEQ ID NO:6.
- 18. A construct comprising, at least one isolated nucleic acid as defined by claim 1 in operative association with a gene of interest, and one or more regulatory elements required for the expression of the gene of interest within a host organism.
- 19. A construct comprising, at least one isolated nucleic acid as defined in claim 2 in operative association with a gene of interest, and one or more regulatory elements required for the expression of the gene of interest within a host organism.
- 20. A transgenic host comprising the isolated nucleic acid of claim 1.
- 21. A transgenic host comprising the isolated nucleic acid of claim 2.

- 22. The transgenic host of claim 20, wherein said transgenic host is selected from the group consisting of a plant, tree, animal, insect, yeast, fungi and bacteria.
- 23. The transgenic host of claim 22, wherein said transgenic host is a plant.
- 24. A transgenic seed obtained from the plant of claim 23.
- 25. A method of mediating the translational activity of a transcript comprising, transforming a host with the construct of claim 18.
- 26. A method of mediating the translational activity of a transcript comprising, transforming a host with the construct of claim 19, and growing said host.
- 27. A method of increasing the amount of protein produced in an organism comprising, transforming said organism with the construct of claim 18, growing said organism, and obtaining said protein therefrom.
- 28. The construct of claim 18, wherein said one or more regulatory elements comprises a regulatory element selected from the group consisting of an inducible promoter, developmentally regulated promoter, tissue specific promoter, constitutive promoter, and enhancer element.
- 29. The isolated nucleic acid of claim 1 comprising the nucleotide sequence defined by SEQ ID NO:5, or a fragment, derivative or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- The isolated nucleic acid of claim 1 comprising the nucleotide sequence defined by SEQ ID NO:8, or a fragment, derivative or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.

- The isolated nucleic acid of claim 1 comprising the nucleotide sequence defined by SEQ ID NO: 9, or a fragment, derivative or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 32. The isolated nucleic acid of claim 1, comprising the nucleotide sequence of SEQ ID NO:26, or a fragment, or analog thereof, wherein said fragment, derivative or analog thereof exhibits translational regulatory activity.
- 33. A construct comprising, at least one isolated nucleic acid as defined by claim 29 in operative association with a gene of interest, and one or more regulatory elements required for the expression of the gene of interest within a host organism.
- 34. A construct comprising, at least one isolated nucleic acid as defined by claim 30 in operative association with a gene of interest, and one or more regulatory elements required for the expression of the gene of interest within a host organism.
- 35. A construct comprising, at least one isolated nucleic acid as defined by claim 31 in operative association with a gene of interest, and one or more regulatory elements required for the expression of the gene of interest within a host organism.
- 36. A construct comprising, at least one isolated nucleic acid as defined by claim 12 in operative association with a gene of interest, and one or more regulatory elements required for the expression of the gene of interest within a host organism.
- 37. The transgenic host of claim 22, wherein said transgenic host is a yeast.
- 38. The transgenic host of claim 22, wherein said transgenic host is a bacteria.
- 39. The transgenic host of claim 22, wherein said transgenic host is a tree, and said tree is a conifer.
- 40. The transgenic host of claim 23, wherein said transgenic host is a monocot plant.